

REMARKS

Prior to examination on the merits, applicants respectfully request entry and consideration of the newly submitted claims. Applicants' newly submitted claims 166-207 are supported by the specification and accordingly, do not constitute new matter. The newly claimed subject matter is similar to that shown in WO 99/55461.

The subject matter of claims 166-169 is supported throughout the specification and specifically at page 14 lines 5 to 10 and page 24 lines 19-26 which describes an array of dispensing units that are used to deposit various reagents to produce an array of at least 100 polymers. Further support is found at page 25 line 8 to page 28 line 16 which describes locating a dispenser containing a solution comprising a compound a distance away from a surface of a support; dispensing a droplet of 5 nanoliters or less from the dispenser with the droplet contacting the surface at a localized area smaller than 1 cm² (page 10 line 9); allowing the compound to attach directly or indirectly to the surface of the support at the localized area. Support for the dependent claims is provided at least at the citations to follow:

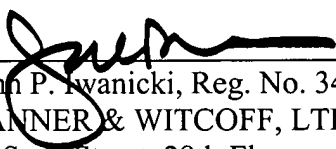
<u>Claim</u>	<u>Subject Matter</u>	<u>Citation</u>
170.	Contacting the dispenser to the surface of the support	p. 27 l. 23
171.	Polymer comprises a nucleic acid, oligonucleotide, polynucleotide, peptide, polypeptide, presynthesized polymer, polyurethane, polyester, polycarbonate, polyurea, polyamide, polyethyleneimine, polyacetate, receptor, enzyme, antibody, catalytic polypeptide, hormone receptor, or opiate receptor	p. 6 l. 2 to p. 9 l. 16; p. 4 l. 5-7.
172.	Polymer comprises at least 2 monomers	p. 24 l. 23-26
173.	Polymer comprises greater than 100 monomers	p. 24 l. 23-26
174.	Polymer comprises 2, 3, 4, 5, 6, 10, 15, 20, 30, 40, 50, 75, or 100 monomers	p. 24 l. 23-26
175.	Support is selected from the group consisting of substantially flat substrates, substrates having raised or depressed regions, beads,	

- gels, sheets, particles, strands, precipitates, spheres, containers, capillaries, pads, slices, films, plates, and slides
- p. 9 l. 18-28;
p. 14 l. 15-26.
176. Support comprises a gel. p. 9 l. 18-28;
p. 14 l. 15-26.
177. Support comprises biological materials, nonbiological materials, organic materials or inorganic materials p. 14 l. 15-16
178. Support is a disc, square, or circle p. 14 l. 20
179. Localized area is smaller than 1mm^2 p. 10 l. 1-14
180. Localized area is smaller than 0.5mm^2 p. 10 l. 1-14
181. Localized area is smaller than $10,000\text{ }\mu\text{m}^2$ p. 10 l. 1-14
182. Localized area is smaller than $100\text{ }\mu\text{m}^2$ p. 10 l. 1-14
183. Array of at least 1,000 different reagents at different localized areas is formed p. 24 l. 19-26
184. Array of at least 10,000 different reagents at different localized areas is formed p. 24 l. 19-26
185. Array of at least 100,000 different reagents at different localized areas is formed p. 24 l. 19-26
186. Array of at least 1,000,000 different reagents at different localized areas is formed p. 24 l. 19-26
187. Step (d) further comprises forming an array of at least 1000 different compounds occupying localized areas within 1 cm^2 of the surface of the support. p. 25 l. 33-35
188. Support comprises glass, derivatized glass, pyrex, quartz, a polymeric material, polystyrene, polycarbonate, silicon or a gel. p. 20 l. 16-20
p. 38 l. 40-42
p. 9 l. 18-28;
p. 14 l. 15-26.
189. Plurality of dispensing units comprises a manifold of delivery lines p. 14 l. 8-10
Figure 12
190. Plurality of dispensing units comprises an array of pipettes p. 14 l. 8-10
Figure 12
191. Plurality of dispensing units comprises a series of tubes p. 14 l. 8-10
Figure 12
192. Plurality of dispensing units includes control valves p. 23 l. 14-15
193. Compound is bound indirectly to the surface of the support via a linker molecule p. 14 l. 34-39
194. One or more localized areas are spaced less than

- about 3 mm apart p. 25 l. 24-26
195. One or more localized areas are spaced less than between about 5 microns and 100 microns apart p. 25 l. 24-26
196. One or more localized areas has an angular relation between each localized area of about 1 degree p. 25 l. 27-29
197. One or more localized areas has an angular relation between each localized area of about 0.1 degree p. 25 l. 27-29
198. Support comprises at least about 1000 localized areas p. 25 l. 29-31
199. Support comprises at least about 10,000 localized areas p. 25 l. 29-31
200. Support comprises at least about 1000 localized areas per cm² of surface of substrate p. 25 l. 33-35
201. Support comprises at least about 10,000 localized areas per cm² of surface of substrate p. 25 l. 33-35
202. Support comprises a strand including one or more of glass, derivatized glass, quartz or a polymeric material p. 20 l. 16-20
p. 38 l. 40-42
p. 9 l. 18-28
p. 14 l. 15-26
203. Surface of the support comprises a hydrophilic substance p. 13 l. 30-32
204. Surface of the support comprises a hydrophobic substance p. 13 l. 30-32
205. Surface of the support comprises a hydrophilic and a hydrophobic substance p. 13 l. 30-32
206. Surface of the support comprises a photoresist p. 19 l. 32-35
207. Surface of the support is cleaned prior to the step of dispensing a droplet p. 20 l. 44-45

Respectfully submitted,

Dated: July 23, 2001


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